

Title (en)

DATA ACCESS SYSTEM AND METHOD, AND DEVICE AND NETWORK CARD

Title (de)

DATENZUGRIFFSSYSTEM UND -VERFAHREN SOWIE VORRICHTUNG UND NETZWERKKARTE

Title (fr)

SYSTÈME ET PROCÉDÉ D'ACCÈS À DES DONNÉES ET DISPOSITIF ET CARTE RÉSEAU

Publication

EP 4318251 A1 20240207 (EN)

Application

EP 22787387 A 20220331

Priority

- CN 202110399947 A 20210414
- CN 202110697375 A 20210623
- CN 2022084322 W 20220331

Abstract (en)

A data access system and method, a device, and a network adapter are provided. In this application, a client device sends a first packet to a first storage device, to request that target data can be written into the first storage device, where the first packet includes a logical address into which the target data needs to be written. A front-end network adapter of the first storage device has a capability of parsing the first packet, and can process the first packet; writes the target data into the first storage device based on an indication of the first packet; and generates metadata, and records a correspondence between the logical address of the target data and the metadata, where the metadata can indicate a physical address at which the target data is stored in the first storage device. In an entire data access process, a processor of the first storage device does not need to participate, and the front-end network adapter of the first storage device performs a data access operation, thereby reducing occupation of computing resources of the processor to some extent, and improving access efficiency of the storage device.

IPC 8 full level

G06F 13/28 (2006.01); **G06F 16/958** (2019.01)

CPC (source: EP US)

G06F 13/28 (2013.01 - EP US); **H04L 67/1097** (2013.01 - EP US); **G06F 2213/28** (2013.01 - US); **G06N 20/00** (2019.01 - EP); **H04L 67/1095** (2013.01 - EP); **H04L 69/22** (2013.01 - EP); **H04L 69/321** (2013.01 - EP); **H04L 69/324** (2013.01 - EP); **H04L 69/326** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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